

### FEATURES :

- **Wide Bandwidth**
- **Low Conversion Loss**
- **High Image Rejection**

### SPECIFICATIONS

RF Frequency Range, [GHz]	1 - 2
LO Frequency Range, [GHz]	1 - 2
IF Frequency	octave bands
Conversion Loss, typ/max [dB] <sup>Note1</sup>	6.5 / 8.5
Image Rejection, typ/min [dB] <sup>Note1</sup>	25 / 20
Amplitude Balance, max [dB] <sup>Note2</sup>	+/-1.0
Phase balance, max [°] <sup>Note2</sup>	+/-8
VSWR RF port, max	2.5 : 1
LO port, max	1.5 : 1
IF Port, max <sup>Note1</sup>	1.3 : 1
Isolation LO - RF, min [dB]	30
LO - IF, min [dB]	45
RF - IF, min [dB]	30
LO Power typ. [dBm]	12±1
Input 1dB C.P. typ [dBm]	+7
Input IP <sub>3</sub> typ [dBm]	+16

### Operating Characteristics

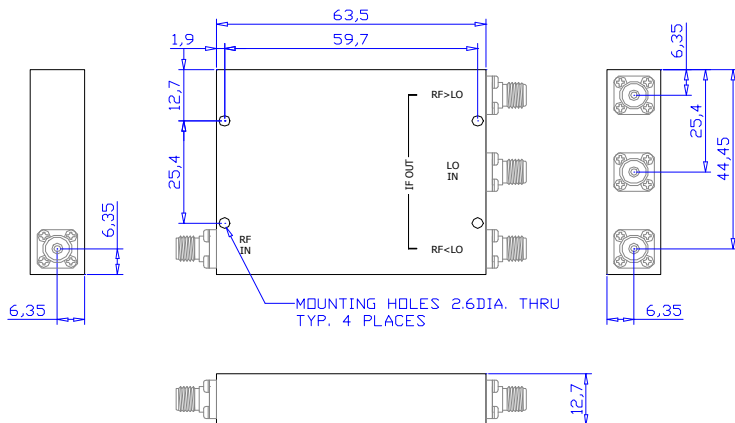
Maximum RF Input Power, [dBm]	20
Maximum LO Power, [dBm]	23
Impedance, [Ohm]	50
Operating Temperature	-20°C to +70°C

### Ordering Information

Model No.	IF Frequency, MHz
IRM1000-2000A	7 - 14
IRM1000-2000B	10 - 20
IRM1000-2000C	20 - 40
IRM1000-2000D	40 - 80
IRM1000-2000E	55 - 110
IRM1000-2000F	100 - 200
IRM1000-2000Q	DC - 500

### Outline drawing

dimensions in mm



Note1 Parameters specified for IF options A, B, C, D, E, F

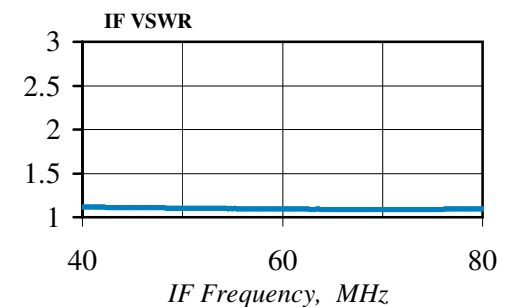
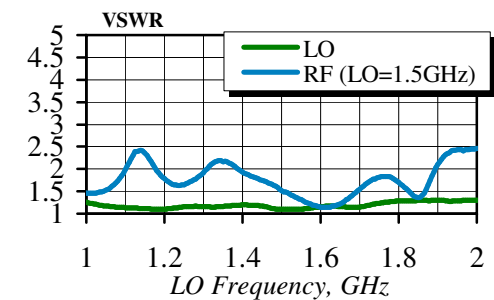
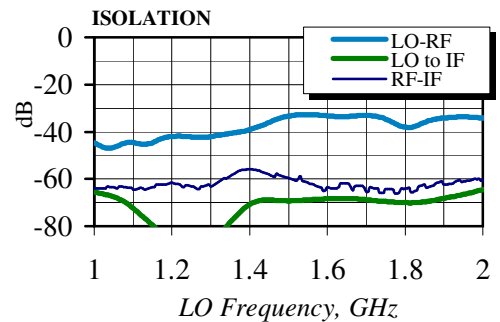
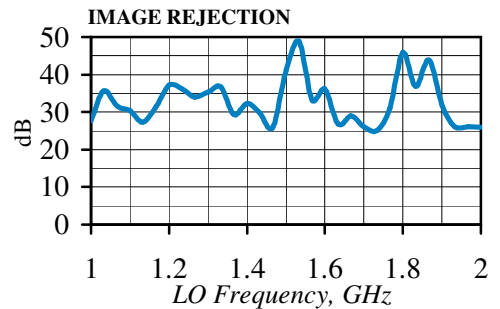
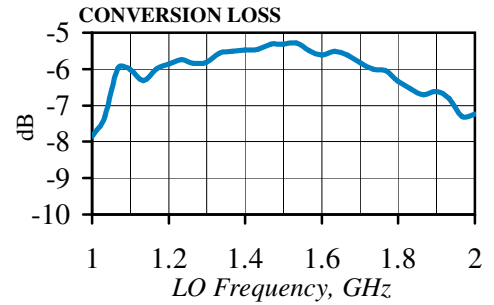
Note2 Parameters specified for IF option Q (I & Q demodulator)

Specifications Subject To Change Without Notice

Rev. A 12.12.2022

### Typical Performance

IRM1000-2000D



All parameters measured at LO Frequency 1.5GHz and LO power +12dBm @ +25°C